CLAIM LISTING

1. (previously presented) A method for scheduling a plurality of mobile units for data transmission, the method comprising the steps of:

determining a plurality of mobile units that require data transmission;

determining power control feedback information for each mobile unit within the plurality of mobile units that require data transmission; and

scheduling the plurality of mobile units for data transmission based on their power control feedback information, wherein scheduling comprises prioritizing at least one mobile unit of the plurality of mobile units over at least one other mobile unit of the plurality of mobile units for data transmission.

2. (original) The method of claim 1 further comprises the step of determining C/I information for each mobile unit within the plurality of mobile units and scheduling the plurality of mobile units additionally based on C/I.

3. (original) The method of claim 1 wherein the step of scheduling the plurality of mobile units for data transmission comprises the step of scheduling the plurality of mobile units for data transmission over a common channel shared by the plurality of mobile units.

4. (previously presented) The method of claim 2 wherein the step of determining C/I information for each mobile unit comprises the step of determining feedback information of a common channel.

5. (previously presented) An apparatus for scheduling mobile units for data transmission, the apparatus comprising:

a channel statistic estimator, wherein the channel statistic estimator has power control information for a plurality of mobile units as an input and outputs a power-control statistic based on the power control information;

a scheduler having the power-control statistic as an input and outputting scheduled mobile units based on the power control statistic, wherein the scheduled mobile units comprises at least one mobile unit of the plurality of mobile units being prioritized over at least one other mobile unit of the plurality of mobile units for data transmission.

6. (original) The apparatus of claim 5 wherein the channel statistic estimator additionally has C/I feedback information for the plurality of mobile units as an input and outputs a statistic based on both power control and C/I information for each mobile unit.

7. (original) The apparatus of claim 6 wherein the C/I information is C/I feedback information for a common channel shared by the plurality of mobile units.

8. (previously presented) A method for scheduling a plurality of mobile units for data transmission, the method comprising the steps of:

determining a plurality of mobile units that require data transmission;

determining a fading metric for each of the plurality of mobile units that require data transmission;

determining a priority metric based on a time a packet is queued for each of the plurality of mobile units that require data transmission;

selecting, based on the fading metric and the priority metric, a mobile unit from the plurality of mobile units that require data transmission; and

transmitting a packet to the mobile unit selected.

9. (previously presented) The method of claim 8 wherein the fading metric is based on a voltage gain setting of a forward dedicated channel.

10. (previously presented) The method of claim 8 wherein the fading metric is based on an accumulation of power control commands.

11. (previously presented) The method of claim 8 wherein the fading metric is based on measured C/I feedback.

12-13. (canceled)

14. (previously presented) The method of claim 1 wherein the step of scheduling the plurality of mobile units comprises the steps of:

generating a metric for each of the plurality of mobile units;

selecting, based on the metric, a mobile unit; and

transmitting a packet to the mobile unit selected.

15. (previously presented) The method of claim 14 wherein the metric includes a priority metric based on a time a packet is queued.

16. (previously presented) The method of claim 1 wherein the power control feedback information comprises a voltage gain setting of a forward dedicated channel.

17. (previously presented) The method of claim 1 wherein the power control feedback information comprises an accumulation of power control commands.

18. (previously presented) The method of claim 5 wherein the power-control statistic comprises a voltage gain setting of a forward dedicated channel.

19. (previously presented) The method of claim 5 wherein the power control feedback information comprises an accumulation of power control commands.